

## EAST Search History

| Ref # | Hits | Search Query  | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|------|---|----------|------------------|---------|------------------|
| L241  | 25   | ((vehicle or car or automobile or auto or truck or motorcycle or motorbike or (motor (bike or cycle))) and (light or (light source) or lamp or lamps or ((lamp or light) (bulb or bulbs)) or luminaire or luminary or luminari or luminaries or torch or torches) and (controller or processor or microprocessor or IC or (integrated circuit)) and ((horizontal\$2 or vertical\$2) (adjustment or adjust\$3 or direct\$3 or aim\$3 or level\$3))).clm. | US-PGPUB | ADJ              | ON      | 2007/09/26 13:38 |

## INTERFERENCE SEARCH

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S26 4 | 1    | ("5769525").PN.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2007/09/26 13:38 |
| S26 5 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2007/09/26 13:38 |
| S26 6 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2007/09/26 13:38 |
| S26 7 | 1066 | S266 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |
| S26 8 | 217  | S266 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |
| S26 9 | 993  | S265 or S268   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |
| S27 0 | 42   | S265 and S268  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |
| S27 1 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2007/09/26 13:38 |
| S27 2 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2007/09/26 13:38 |
| S27 3 | 217  | S272 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |
| S27 4 | 42   | S271 and S273  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S27<br>5 | 993  | S271 or S273  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S27<br>6 | 951  | S275 not S274   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S27<br>7 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S27<br>8 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S27<br>9 | 217  | S278 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>0 | 42   | S277 and S279   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>1 | 993  | S277 or S279  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>2 | 951  | S281 not S280   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>3 | 247  | S282 and ((high and low) with<br>beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>4 | 1    | ("20020097585").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S28<br>5 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S28<br>6 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S28<br>7 | 217  | S286 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>8 | 42   | S285 and S287  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S28<br>9 | 993  | S285 or S287   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>0 | 951  | S289 not S288  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>1 | 247  | S290 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>2 | 704  | S290 not S291  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>3 | 1    | ("5769525").PN.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S29<br>4 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S29<br>5 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S29<br>6 | 1066 | S295 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>7 | 217  | S295 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S29<br>8 | 993  | S294 or S297   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S29<br>9 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S30<br>0 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S30<br>1 | 217  | S300 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>2 | 42   | S299 and S301   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>3 | 993  | S299 or S301  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>4 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S30<br>5 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S30<br>6 | 217  | S305 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>7 | 42   | S304 and S306   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>8 | 993  | S304 or S306  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S30<br>9 | 951  | S308 not S307   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>0 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S31<br>1 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S31<br>2 | 217  | S311 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>3 | 42   | S310 and S312   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>4 | 993  | S310 or S312  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>5 | 951  | S314 not S313   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>6 | 247  | S315 and ((high and low) with<br>beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>7 | 1    | ("20020097585").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S31<br>8 | 42   | S294 and S297   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S31<br>9 | 247  | S309 and ((high and low) with<br>beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>0 | 704  | S315 not S316   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>1 | 951  | S303 not S302   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>2 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S32<br>3 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S32<br>4 | 217  | S322 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>5 | 42   | S323 and S324   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>6 | 993  | S323 or S324  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S32<br>7 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S32<br>8 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S32<br>9 | 217  | S328 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>0 | 42   | S327 and S329   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>1 | 993  | S327 or S329  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>2 | 951  | S331 not S330   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>3 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S33<br>4 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S33<br>5 | 217  | S334 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>6 | 42   | S333 and S335  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>7 | 993  | S333 or S335   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>8 | 951  | S337 not S336  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S33<br>9 | 247  | S338 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S34<br>0 | 1    | ("20020097585").PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S34<br>1 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S34<br>2 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S34<br>3 | 217  | S342 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S34<br>4 | 42   | S341 and S343  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S34<br>5 | 993  | S341 or S343   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S34<br>6 | 951  | S345 not S344  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |



## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S34<br>7 | 247  | S346 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S34<br>8 | 1    | ("5769525").PN.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S34<br>9 | 704  | S346 not S347  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S35<br>0 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S35<br>1 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S35<br>2 | 1066 | S350 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S35<br>3 | 217  | S350 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S35<br>4 | 993  | S351 or S353   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S35<br>5 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S35<br>6 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S35<br>7 | 217  | S356 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S35<br>8 | 42   | S355 and S357  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S35<br>9 | 993  | S355 or S357  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>0 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S36<br>1 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S36<br>2 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S36<br>3 | 217  | S362 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>4 | 217  | S361 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>5 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S36<br>6 | 42   | S365 and S363   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>7 | 42   | S360 and S364   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>8 | 993  | S360 or S364  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S36<br>9 | 951  | S368 not S367   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>0 | 993  | S365 or S363  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S37<br>1 | 951  | S370 not S366  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>2 | 247  | S371 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>3 | 1    | ("20020097585").PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S37<br>4 | 42   | S351 and S353  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>5 | 247  | S369 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>6 | 704  | S371 not S372  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>7 | 951  | S359 not S358  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S37<br>8 | 1    | ("5769525").PN.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S37<br>9 | 1066 | S322 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S38<br>0 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S38<br>1 | 1066 | S380 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S38<br>2 | 217  | S380 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S38<br>3 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S38<br>4 | 993  | S383 or S382  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S38<br>5 | 42   | S383 and S382   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S38<br>6 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S38<br>7 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S38<br>8 | 217  | S387 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S38<br>9 | 42   | S386 and S388   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>0 | 993  | S386 or S388  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>1 | 951  | S390 not S389   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>2 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S39<br>3 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S39<br>4 | 217  | S393 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S39<br>5 | 42   | S392 and S394  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>6 | 993  | S392 or S394   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>7 | 951  | S396 not S395  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>8 | 247  | S397 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S39<br>9 | 1    | ("20020097585").PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S40<br>0 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S40<br>1 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S40<br>2 | 217  | S401 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S40<br>3 | 42   | S400 and S402  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S40<br>4 | 993  | S400 or S402   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S40<br>5 | 951  | S404 not S403  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S40<br>6 | 247  | S405 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S40<br>7 | 704  | S405 not S406   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S40<br>8 | 1    | ("5769525").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S40<br>9 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S41<br>0 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S41<br>1 | 1066 | S410 and (horizontal\$2 and<br>vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S41<br>2 | 217  | S410 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S41<br>3 | 993  | S409 or S412  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S41<br>4 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S41<br>5 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S41<br>6 | 217  | S415 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S41<br>7 | 42   | S414 and S416   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S41<br>8 | 993  | S414 or S416  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S41<br>9 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S42<br>0 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S42<br>1 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S42<br>2 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S42<br>3 | 217  | S422 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>4 | 42   | S421 and S423   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>5 | 217  | S420 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>6 | 42   | S419 and S425   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>7 | 993  | S419 or S425  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>8 | 951  | S427 not S426   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S42<br>9 | 993  | S421 or S423  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>0 | 951  | S429 not S424   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S43<br>1 | 247  | S430 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>2 | 1    | ("20020097585").PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S43<br>3 | 42   | S409 and S412  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>4 | 247  | S428 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>5 | 704  | S430 not S431  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>6 | 951  | S418 not S417  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S43<br>7 | 3069 | (362/464,459,466-469,509,512,515,516,523,526).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S43<br>8 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S43<br>9 | 217  | S437 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>0 | 42   | S438 and S439  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>1 | 993  | S438 or S439   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>2 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |



## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S44<br>3 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S44<br>4 | 217  | S443 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>5 | 42   | S442 and S444   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>6 | 993  | S442 or S444  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>7 | 951  | S446 not S445   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S44<br>8 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S44<br>9 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S45<br>0 | 217  | S449 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S45<br>1 | 42   | S448 and S450   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S45<br>2 | 993  | S448 or S450  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S45<br>3 | 951  | S452 not S451   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S45<br>4 | 247  | S453 and ((high and low) with<br>beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S45<br>5 | 1    | ("20020097585").PN.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S45<br>6 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S45<br>7 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S45<br>8 | 217  | S457 and (horizontal\$2 and<br>vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S45<br>9 | 42   | S456 and S458   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>0 | 993  | S456 or S458  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>1 | 951  | S460 not S459   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>2 | 247  | S461 and ((high and low) with<br>beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>3 | 1    | ("5769525").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S46<br>4 | 704  | S461 not S462   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>5 | 3069 | (362/464,459,466-469,509,512,515,<br>516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S46<br>6 | 818  | (362/465,514,519,525).CCLS.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S46<br>7 | 1066 | S465 and (horizontal\$2 and vertical\$2)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>8 | 217  | S465 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S46<br>9 | 993  | S466 or S468   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S47<br>0 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S47<br>1 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S47<br>2 | 217  | S471 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S47<br>3 | 42   | S470 and S472  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S47<br>4 | 993  | S470 or S472   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S47<br>5 | 818  | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S47<br>6 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S47<br>7 | 3069 | (362/464,459,466-469,509,512,515, 516,523,526).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S47<br>8 | 217  | S477 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |     |  |   |     |     |                  |
|----------|-----|--|---|-----|-----|------------------|
| S47<br>9 | 217 | S476 and (horizontal\$2 and vertical\$2 and halogen) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>0 | 818 | (362/465,514,519,525).CCLS.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S48<br>1 | 42  | S480 and S478  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>2 | 42  | S475 and S479  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>3 | 993 | S475 or S479   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>4 | 951 | S483 not S482  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>5 | 993 | S480 or S478   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>6 | 951 | S485 not S481  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>7 | 42  | S466 and S468  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>8 | 247 | S484 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S48<br>9 | 247 | S486 and ((high and low) with beam)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>0 | 704 | S486 not S489  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |        |   |   |     |     |                  |
|----------|--------|---|---|-----|-----|------------------|
| S49<br>1 | 1      | ("20020097585").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S49<br>2 | 951    | S474 not S473   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>3 | 1      | ("5769525").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |
| S49<br>4 | 1066   | S437 and (horizontal\$2 and<br>vertical\$2)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>5 | 0      | S398 and S399   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>6 | 248278 | (controller or processor or<br>microprocessor or IC or (integrated<br>circuit)).clm.  | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>7 | 758    | ((automatic or (self acting) or (self<br>regulating) or programmed or<br>programed or programable)<br>(controller or processor or<br>microprocessor or IC or (integrated<br>circuit))).clm.   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>8 | 160    | (lowbeam or (low beam)) and<br>(highbeam or (high beam)).clm.   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S49<br>9 | 0      | S497 and S498   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>0 | 90484  | (vehicle or car or automobile or<br>auto or truck or motorcycle or<br>motorbike or (motor (bike or<br>cycle))).clm.   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>1 | 157182 | ((light or (light source) or lamp or<br>lamps or ((lamp or light) (bulb or<br>bulbs)) or luminaire or luminary or<br>luminari or luminaries or torch or<br>torches) or (LED or LEDs or (L E D)<br>or ((light or (visible radiation))<br>(emitting or producing or<br>generating or radiating) (diode or<br>diodes or device or devices or<br>element or elements or<br>semiconductor or (semi conductor)<br>or (circuit element))))).clm. | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>2 | 12     | S500 and S501 and S497  | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |

## EAST Search History

|          |        |   |   |     |     |                  |
|----------|--------|---|---|-----|-----|------------------|
| S50<br>3 | 1937   | S500 and S501 and S496  | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>4 | 25     | ((vehicle or car or automobile or auto or truck or motorcycle or motorbike or (motor (bike or cycle))) and (light or (light source) or lamp or lamps or ((lamp or light) (bulb or bulbs)) or luminaire or luminary or luminari or luminaries or torch or torches) and (controller or processor or microprocessor or IC or (integrated circuit)) and ((horizontal\$2 or vertical\$2) (adjustment or adjust\$3 or direct\$3 or aim\$3 or level\$3))).clm.   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>5 | 0      | ((vehicle or car or automobile or auto or truck or motorcycle or motorbike or (motor (bike or cycle))) and ((light or (light source) or lamp or lamps or ((lamp or light) (bulb or bulbs)) or luminaire or luminary or luminari or luminaries or torch or torches) or (LED or LEDs or (L E D) or ((light or (visible radiation)) (emitting or producing or generating or radiating) (diode or diodes or device or devices or element or elements or semiconductor or (semi conductor) or (circuit element)))))) and ((automatic or (self acting) or (self regulating) or programmed or programed or programable) (controller or processor or microprocessor or IC or (integrated circuit))) and (lowbeam or (low beam)) and (highbeam or (high beam))).clm. | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>6 | 153086 | (light or (light source) or lamp or lamps or ((lamp or light) (bulb or bulbs)) or luminaire or luminary or luminari or luminaries or torch or torches).clm.   | US-PGPUB                                  | ADJ | ON  | 2007/09/26 13:38 |
| S50<br>7 | 1      | ("5769525").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR  | OFF | 2007/09/26 13:38 |

## EAST Search History

|      |      |  |  |     |     |                  |
|------|------|--|--|-----|-----|------------------|
| S508 | 1099 | (362/464-468).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR  | OFF | 2007/09/26 13:38 |
| S509 | 56   | S508 and (vertical\$2 NEAR adjust\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                      | ADJ | ON  | 2007/09/26 13:38 |
| S510 | 2    | S509 and (((high and low) with beam) With (vertical\$2 NEAR adjust\$4))              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                      | ADJ | ON  | 2007/09/26 13:38 |
| S511 | 6    | S509 and (((high or low) with beam) With (vertical\$2 NEAR adjust\$4))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                      | ADJ | ON  | 2007/09/26 13:38 |
| S512 | 6    | ("5499168"   "5567032"   "5899559"   "5975730"   "6161950").PN. OR ("6481865").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                   | ADJ | ON  | 2007/09/26 13:38 |
| S513 | 2    | ((("6481865") or ("20020067618")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO                      | OR  | OFF | 2007/09/26 13:38 |